

## Appendix B

### Existing Transportation Conditions

**Appendix B** contains data regarding right-of-way width, base material, pavement type, drainage characteristics, turning lane locations and year 2000 PM peak hour Level of Service (LOS). Appendix B also includes the summary of license plate surveys conducted in support of the US 95 Coeur d'Alene Corridor Plan.

## Appendix B – Existing Transportation Conditions

Appendix B contains data regarding ROW width, base material, pavement type, drainage characteristics, turning lane locations, and 2000 PM peak hour LOS.

**Table B-1. ROW Width**

<i>Project #</i>	<i>Milepost</i>	<i>LT ROW (feet)</i>	<i>RT ROW (feet)</i>	<i>Total ROW (feet)</i>
BR-F-5115 (15)	420.893	100		
	420.931	100	150	250
	420.969	210	150	360
	421.063	170	150	320
	421.101	100	150	250
	421.177	120	150	270
	421.233	120	130	250
	421.384	100	100	200
	421.479	100	100	200
	421.555	100	120	220
	421.611	200	120	320
	421.649	140	120	260
	421.668	140	180	320
	421.696	140	160	300
	421.772	140	230	370
	421.781	140	230	370
	421.810	140	140	280
	421.829	140	100	240
	421.857	230	100	330
	421.895	260	100	360
	421.914	260	100	360
	421.951	100	100	200
	421.970	100	230	330
	421.980	150	100	250
	421.999	100	100	200
	422.018	100	100	200
	422.065	150	100	250
	422.122	180	100	280
	422.140	180	100	280
	422.159	180	170	350
	422.197	100	270	370
	422.267	100	270	370
	422.311	100	100	200
	422.312	100	120	220
	422.329	200	120	320
	422.377	200	120	320
	422.396	250	120	370
	422.481	250	100	350

	422.509	250	140	390
	422.537	250	140	390
	422.565	250	100	350
	422.571	160	100	260
	422.717	212.08	100	312.08
	422.747	150	100	250
	422.821	150	100	250
	422.839	100	100	200
	422.859	100	167.4	267.4
	422.896	120	167.4	287.4
	423.081	120	88.11	208.11
	423.133	120	107.25	227.25
	423.216	120	107.25	227.25
	423.237	100	107.25	207.25
	423.322	100	100	200
	423.369	100	100	200
	423.426	100	100	200
	423.427	100	205	305
	423.747	100	100	200
F-FG-5115 (4)	428.682	33.85	45.71	79.56
	428.685	33.85	45.71	79.56
	428.688	33.85	113.32	147.17
	428.698	33.85	123.88	157.73
	428.726	33.85	120.49	154.34
	428.761	33.85	123.64	157.49
	428.778	33.85	131.73	165.58
	428.787	77.08	131.73	208.81
	428.794	77.08	132.96	210.04
	428.802	72.15	132.96	205.11
	428.827	72.15	157.09	229.24
	428.844	44.98	157.09	202.07
	428.848	44.98	190	234.98
	428.855	44.98	205.5	250.48
	428.866	47.64	205.5	253.14
	428.879	44.17	205.5	249.67
	428.889	44.17	84.5	128.67
	428.889	44.17	84.5	128.67
	428.965	44.17	60	104.17
	428.987	114.6	60	174.6
	428.987	60	60	120
	429.012	58.12	60	118.12
	429.017	58.12	59.71	117.83
	429.023	57.12	59.71	116.83
	429.032	57.12	61.4	118.52
	429.054	60	60	120
	429.131	60	60	120
	429.306	60	60	120
	429.583	77.53	60	137.53

	429.585	77.53	106.1	183.63
	429.592	85.61	104.41	190.02
	429.630	115.4	95.81	211.21
	429.664	115.4	60	175.4
	429.709	115.4	60	175.4
	429.781	78.21	60	138.21
	429.804	53	60	113
	429.822	53	40	93
	429.851	37.93	40	77.93
	429.860	37.93	40	77.93
	429.870	55	40	95
	429.887	55	40	95
	430.011	40	40	80
	430.125	40	40	80
	430.219	40	40	80
	430.272	40	40	80
	430.272	100	100	200
F-5115 (6)	430.279	100	100	200
	430.281	100	100	200
	430.317	120	100	220
	430.325	120	120	240
	430.336	120	120	240
	430.344	120	120	240
	430.482	100	100	200
	430.507	100	100	200
	430.738	100	100	200
	430.756	100	100	200
F-5116 (24)	430.767	110	110	220
	431.050	110	110	220
	431.617	110	110	220
HES-5116 (66)	431.178	110	110	220
	431.212	110	110	220
	431.244	110	110	220
F-5116 (24)	431.618	110	110	220
	431.646	110	110	220
	432.204	110	110	220
HES-5116 (64)	431.750	110	110	220
	431.781	110	110	220
	431.816	110	110	220
	431.920	110	110	220
F-5116 (24)	432.212	110	110	220
	432.769	110	110	220
	433.336	110	110	220
	433.903	110	110	220
IR-F-5116 (072)	433.654	110	110	220
	433.745	110	110	220
	433.843	110	110	220
	433.936	110	110	220

F-5116 (24)	434.470	110	110	220
	435.037	110	110	220
	435.604	110	110	220
	436.171	110	110	220
	436.738	110	110	220
	437.305	110	110	220
	437.872	110	110	220
	438.439	110	110	220
100A (4)	438.703	100	100	200
	439.383	100	200	300
	439.629	100	200	300
	439.780	100	100	200
	440.347	100	100	200
	440.347	100	150	250
	440.536	100	150	250
	440.574	100	150	250
	440.838	100	100	200
	441.859	100	100	200

**Table B-2. Base Material.**

<i>Begin MP</i>	<i>End MP</i>	<i>Base Type</i>
428.8	428.84	Stabilized Earth
429.95	430.01	Granular Material
436.27	436.29	Granular Material

**Table B-3. Pavement Type.**

<i>Begin MP</i>	<i>End MP</i>	<i>Pavement Type</i>	<i>Location</i>
419.18	420.67	High Flexible	South Fork Mica Creek
421.21	421.29	High Flexible	Mica Creek Bridge
421.38	423.27	High Flexible	Tall Pines and Kid Island Roads
423.27	424.1	High Flexible	Kid Island Road
429.61	429.61	Mixed Bituminous	End Spokane River Bridge
429.88	429.89	High Flexible	Lincoln Ave, Coeur d'Alene
430.63	430.65	High Flexible	I-90 Overpass, Coeur d'Alene
436.27	436.29	High Flexible	Hayden

**Table B-4. Drainage Characteristics.**

<i>Begin MP</i>	<i>End MP</i>	<i>Drainage Adequacy</i>
419.18	420.67	Poor
421.21	421.29	Good
421.38	423.27	Good
423.27	424.1	Poor

426.61	427	Good
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**Table B-5. Turning Lanes**

<i>Location</i>	<i>Northbound</i>	<i>Southbound</i>
Tall Pines Rd.		Left
Kid Island Rd./Carnie Rd.	Left	Left
Cougar Gulch Rd.	Left	Right
E. Riverview Dr.	Left	
Blackwell Rd.		Right
Northwest Blvd. EB Ramps	Right	Left
Northwest Blvd. WB Ramps	Left	Right
Walnut Ave.		Left
Lacrosse Ave.		Left
Mill Ave.	Left	Left
Davidson Ave.	Left	Left
Emma Ave.	Left	Left
Ironwood Dr.		Left
Ironwood Dr.	Right & Left	Right & Left
I-90 EB Ramps	Right	Left
I-90 WB Ramps	Left	Right
Appleyay Ave.	Right & Left	Right & Left
Haycraft Ave.	Right & Left	Right & Left
Cherry Lane	Right & Left	Right & Left
Neider Ave.	Right & Left	Right & Left
Bosanko Ave.	Right & Left	Right & Left
Sunset Ave.	Right	Right
Kathleen Ave.	Right & Left	Right & Left
Dalton Ave.	Right & Left	Right & Left
Hanley Ave.	Right & Left	Right & Left
Canfield Ave.	Right & Left	Right & Left
N. Mineral Drive	Left	Right
Aqua Ave.	Right & Left	Right & Left
Prairie Ave.	Right & Left	Right & Left
Honeysuckle Ave.	Right & Left	Right & Left
Orchard Ave.	Right & Left	Right & Left
Hayden Ave.	Right & Left	Right & Left
Dakota Ave.	Right & Left	Right & Left
Miles Ave.	Right & Left	Right & Left
Lacey Ave.	Right & Left	Right & Left
Wyoming Ave.	Right & Left	Right & Left
Lancaster Rd.	Right & Left	Right & Left
Boekel Rd.	Left	Right
SH-53	Right & Left	Right & Left
Garwood Rd.	Right & Left	Right & Left
Ohio Match Rd.	Right & Left	

**Table B-6. 2000 Existing PM Peak Hour Conditions (July) - Level of Service Summary.**

<b>US 95 at:</b>	<b>LOS<sup>1</sup></b>	<b>Delay<sup>2</sup></b>	<b>V/C<sup>3</sup></b>
Ironwood Drive	E	64.2	0.76
I-90 EB Ramps	D	41.0	0.64
I-90 WB ramps	C	31.7	0.60
Appleway Ave	F	>80.0	>1.00
Neider Ave	E	56.7	0.85
Bosanko Ave	D	40.0	0.77
Kathleen Ave	E	66.7	0.80
Dalton Ave	D	35.1	0.68
Hanley Ave	D	47.1	0.74
Canfield Ave	D	51.2	0.82
Prairie Ave	F	>80.0	0.92
Hayden Ave	E	70.5	0.69
SR 53/Government Way	E	78.6	0.84
<ol style="list-style-type: none"> <li>1. Level of Service.</li> <li>2. Average delay per vehicle.</li> <li>3. Volume to capacity ratio.</li> </ol>			

## **US 95 Corridor Study License Plate Surveys**

### **Introduction**

This report summarizes the results of the US 95 Corridor Plan License Plate Surveys. Two separate surveys were conducted as part of the US 95 Corridor Study. W&H Pacific, Inc. conducted the first Survey in July 2000 and ATD Northwest, Inc. conducted the second survey in November, 2001. Both surveys were conducted for the Idaho Transportation Department (ITD) as part of the US 95 Corridor Study in order to determine the origins and destinations of external and through traffic along US 95 in the Coeur d'Alene urban area. Both surveys were conducted on Tuesdays from 3:00 – 7:00 PM in order to record traffic information typical of weekday traffic conditions. Mondays and Fridays are less predictable because people may extend their weekends and make additional trips or not make typical trips. Surveyors recorded license plate information (state of origin and first four alphanumeric symbols) to track movements of vehicles along the corridor.

### **Purpose of Surveys**

The surveys were conducted to further understand vehicular movement along the US 95 corridor in the Coeur d'Alene region. It is important to thoroughly understand transportation patterns within a region in order to plan a transportation system that efficiently serves the transportation needs of area residents and visitors. Observations of traffic patterns, as obtained by this survey, are a concrete way to gain understanding of the movements in a corridor travel system. Data recorded in these surveys were analyzed to determine the vehicles that passed through the US 95 corridor without stopping (other than at signals); the time to traverse the corridor; the vehicles that stopped at intermediate points (and the approximate duration of the stop); the vehicles that entered the corridor, made a stop, and then exited in the direction they originated; and the vehicles that entered the corridor and stayed within the corridor throughout the study period.

### **Survey #1: July, 2000**

#### ***Survey Study Area***

The Survey study area forms a rectangle in the Coeur d'Alene area that is bordered by US 95 on the east, I-90 on the south, SH-41 on the west, and SH-53 on the north side. Average Daily Traffic (ADT) numbers within the survey study area are some of the highest along the US 95 corridor in the Coeur d'Alene region. At the I-90/US 95 interchange ADT is over 30,000 vehicles per day. At Hanley Avenue ADT is between 25,000 and 30,000, and at Ironwood Avenue ADT is just under 25,000. In 1988 there were 63 total accidents at the I-90/US 95 interchange. The speed limit along US 95 in the study area ranges from 25 miles per hour (mph) to 45 mph. The number of travel lanes along US 95 ranges from two to six in this area.

#### ***Survey Process and Location***

#### **Survey Stations**

**Map 1** depicts the 16 Survey Station locations. The Survey Stations included:

*US 95 South of Spokane River Bridge* – Stations 1 and 2 were the southern-most Survey sites, located on US 95 just south of the Spokane River Bridge. Station 1 recorded northbound traffic data and Station 2 recorded southbound traffic data.

*US 95/I-90 Interchange* – Stations 3, 4, 5, and 6 were located at the US 95/I-90 interchange in Coeur d'Alene. The interchange is controlled via signalization. Station 3 was located on the eastbound I-90 on-ramp, Station 4 was located on the westbound I-90 off-ramp, Station 5 was located on the westbound I-90 on-ramp, and Station 6 was located on the eastbound I-90 off-ramp. Along with the four stations at the I-90/Ramsey Road interchange, these four stations were among the station locations with the highest traffic volumes, ranging from 34,000-43,000 ADT.

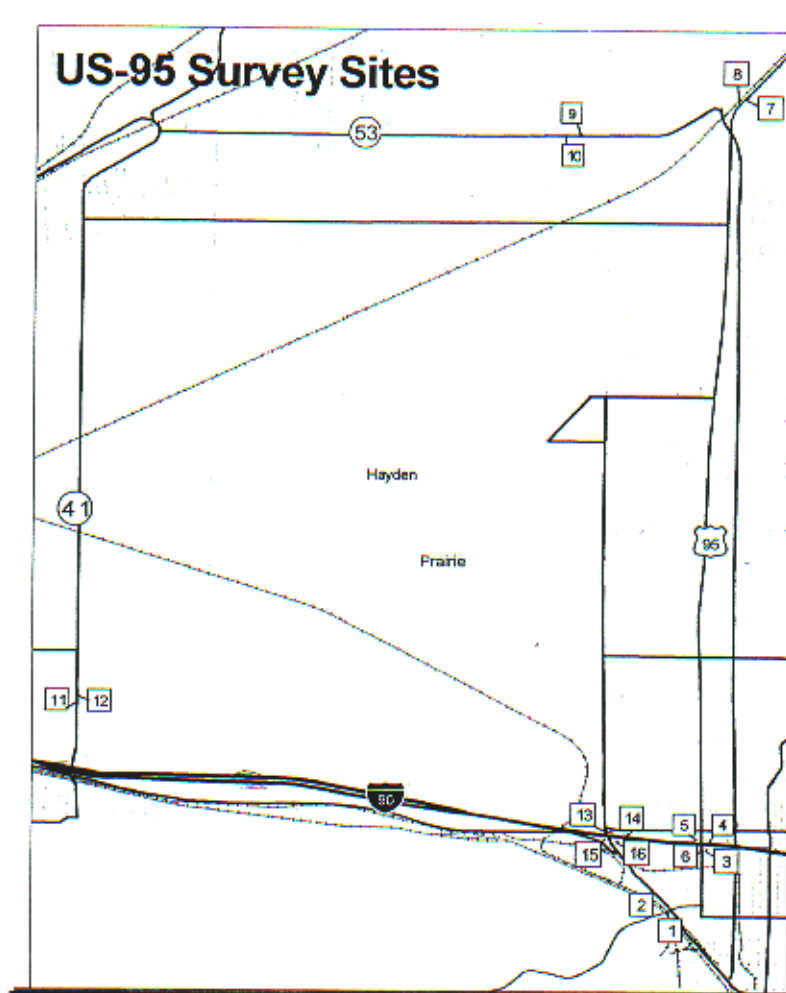
*US 95 North of SH-53* – Stations 7 and 8 were located on US 95 just north of SH-53, and were the northernmost stations in the Survey. Station 7 recorded northbound traffic data and Station 8 recorded southbound traffic data.

*SH-53* – Stations 9 and 10 were located on SH-53 west of the US 95/SH-53 junction. Station 9 recorded westbound traffic data and Station 10 recorded eastbound traffic data.

*SH-41* – Stations 11 and 12 were located on SH-41 between I-90 and Prairie Avenue. Station 11 recorded southbound traffic data and Station 12 recorded northbound traffic data.

*I-90/Ramsey Road Interchange* – Stations 13, 14, 15, and 16 were located at the I-90/Ramsey Road interchange. Station 13 was located on the westbound I-90 on-ramp, Station 14 was located on the westbound I-90 off-ramp, Station 15 was located on the eastbound I-90 off-ramp, and Station 16 was located on the eastbound I-90 on-ramp. Along with the four stations at the I-90/US 95 interchange, these four stations were among the locations with the highest traffic volumes, ranging from 34,000-43,000 ADT.

Survey stations 1 through 6 provided direct access to the southern and central portions of the corridor and captured all movements in this area. Survey stations 7 and 8 captured all movements at the northern end of the corridor. Survey sites 9 through 16 captured movements that may have been bypassing the corridor on alternate routes.

**MAP 1: July 2000 O-D Survey Stations****Personnel**

This study required 16 surveyors, one for each survey station. Surveyors included staff from W&H Pacific and The Transpo Group, as well as people hired through Humanix, a temp agency in Coeur d'Alene. Surveyors attended a training session from 2:00 – 3:00 PM on July 11 at Humanix, prior to the Survey itself. At the training session, surveyors were instructed regarding correct survey methodology and safety. From 3:00 – 7:00 PM, surveyors conducted the Survey. After completion of the Survey, surveyors met in the Humanix parking lot to return Survey materials and data.

**Pre-Survey**

Prior to the Survey, a press release was provided to local media to alert the public that data collection on some state highways would occur the week of July 9. The press release did not detail where and when the data collection would take place to ensure normal traffic conditions. Study error was minimized by not informing the public of the location or exact times of the survey. A safety plan was developed to ensure compliance with applicable laws and ITD practices (coordinated with the ITD Traffic Engineer), and proper authorities (State Police, Coeur d'Alene Police Department, etc.) were notified in writing regarding Survey details.

## **Survey**

The Survey was conducted from 3:00 – 7:00 PM on July 11 (including extra time allocated for set-up and wrap-up). Each Surveyor was stationed at a Survey Station, and was responsible for recording data for traffic traveling in only one direction. The surveyors positioned their cars in the general direction of traffic flow to allow easy reading of license plate information, and no vehicles were stopped as part of the Survey. Each surveyor was seated in a car and equipped with a hand-held tape recorder. Surveyors read license plates of vehicles as they passed and vocally recorded:

- 1) Time (one-minute intervals or as often as possible);
- 2) State plate (WA, ID or other);
- 3) Vehicle classification (autos, trucks/commercial vehicles, motorcycles);
- 4) First four letters/numbers on license plate.

Surveyors recorded information for all vehicles possible. Some vehicles lacked license plates, some license plates were unreadable due to mud, bicycle racks, trailers, or other obstacles, and some vehicles passed by too quickly for surveyors to record much data. In such cases, surveyors noted the type or presence of vehicle that passed. The amount of vehicles for which all information was not recorded was comparatively small and did not affect the survey sample.

## **Equipment**

*Cars* – Each surveyor sat in a car to conduct the Survey. Surveyors recruited through Humanix were required to provide their own cars.

*Cones* – Surveyors used orange traffic cones to warn traffic of the presence of their parked vehicles (for safety purposes).

*Tape recorders* – Surveyors used hand-held tape recorders to record license plate data. Surveyors were given three tapes to use (1.5 hours per tape) and sets of extra batteries. Hand-held recorders, tapes, and batteries were purchased in Coeur d'Alene.

*Examples of state plate designs* – Surveyors used pictorial examples of license plates (assembled by W&H Pacific) to discern state origins of vehicles.

*Watches* – Surveyors were asked to provide their own watches for timing purposes. Surveyors recorded time every one – five minutes, depending on location.

*Maps* – W&H Pacific provided maps of the Survey Stations for surveyors (see **Map 1**).

## **Database Development**

After the survey was completed, data from the recorded cassette tapes were compiled into an Excel spreadsheet. Separate spreadsheets were constructed for each survey station. Survey procedures and data entry were designed to minimize error. After the recorded data were transcribed into spreadsheet format, the data were validated for accuracy. Staff listened to each recording while examining data for

each survey station. Staff validated time by running a stopwatch in coordination with the recorded times given orally by surveyors on the cassette tapes. Staff also validated the entry of license plate, vehicle classification, and state origin data by listening to the recordings.

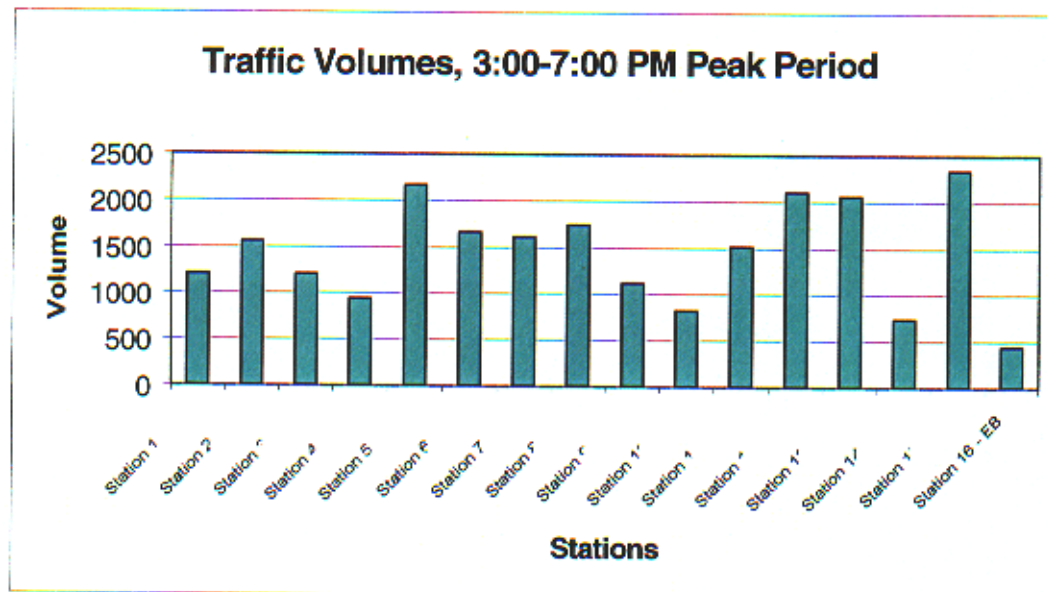
## Survey Results

The following sections summarize volumes, vehicle types, and vehicle origins for each of the survey stations as well as for a composite of all the stations.

### All Survey Stations

Exhibit 2 shows the volumes for the PM peak hour study period (3:00 – 7:00 PM) for each survey station. Station 15 (eastbound I-90 off-ramp at Ramsey Road) had the highest traffic volume (2336 vehicles) followed by Station 5 at the westbound I-90 on-ramp at US 95 (2169 vehicles), Station 12 on Highway 41 northbound south of Prairie Avenue (2105 vehicles), and Station 13 at the westbound I-90 on-ramp at Ramsey Road (2059 vehicles). All other stations had peak period volume counts less than 2000 vehicles.

**Exhibit 2. Traffic Volumes by Survey Station.**



**Exhibit 3** shows the composition of vehicle origin by survey station. As the exhibit shows, the primary vehicle origin was Idaho at all stations. Stations with the highest proportion of Washington plates were Stations 5 (westbound I-90 on-ramp at US 95), 6 (eastbound I-90 off-ramp at US 95), 13 (westbound I-90 on-ramp at Ramsey Road) and 15 (eastbound I-90 off-ramp at Ramsey Road).

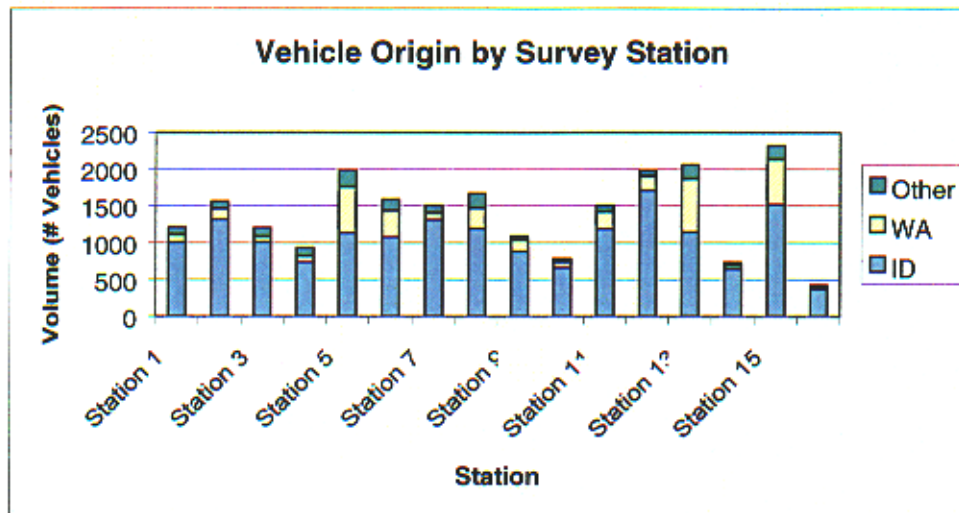
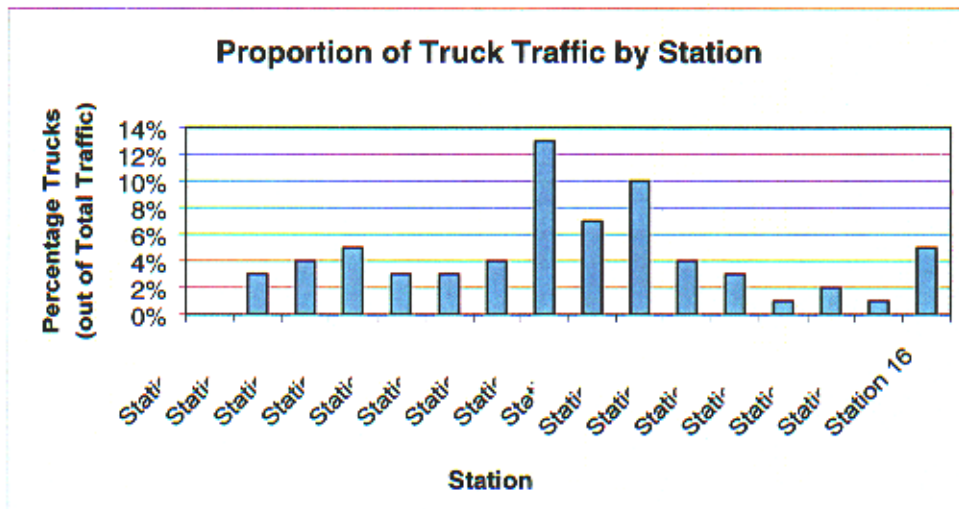
**Exhibit 3. Vehicle Origin by Survey Station.**

Exhibit 4 shows the proportion of truck traffic at each station. Station 8 had the highest proportion of truck traffic at approximately 13%. Station 10 had approximately 10% truck traffic and Station 9 had approximately 7% truck traffic. Most stations had between 1% and 4% truck traffic.

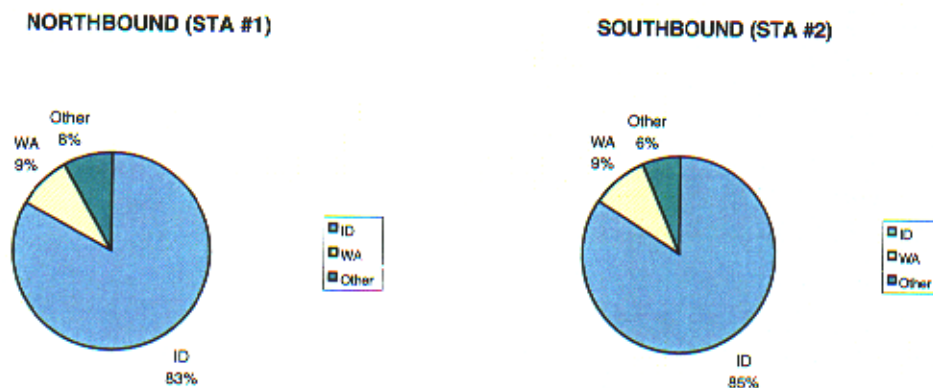
**Exhibit 4. Proportion of Truck Traffic by Station**

### US 95 South of Spokane River Bridge, Survey Stations 1 and 2

Stations 1 and 2 were the southern-most survey sites, located on US 95 just south of the Spokane River Bridge. Station 1 recorded northbound traffic data and Station 2 recorded southbound traffic data.

**Exhibit 5** shows the percentage breakdown of total traffic volume for the four-hour study period (3:00 - 7:00 PM) by state of origin. 83 percent of vehicles recorded had Idaho plates at Station 1 and 85 percent had Idaho plates at Station 2. For both Stations 1 and 2, 9% of recorded vehicles had Washington plates. 8% of the vehicles at Station 1 and 6% of vehicles at Station 2 had plates from states other than Idaho or Washington.

**Exhibit 5: Total Traffic Volume by State, US 95 South of Spokane River Bridge**



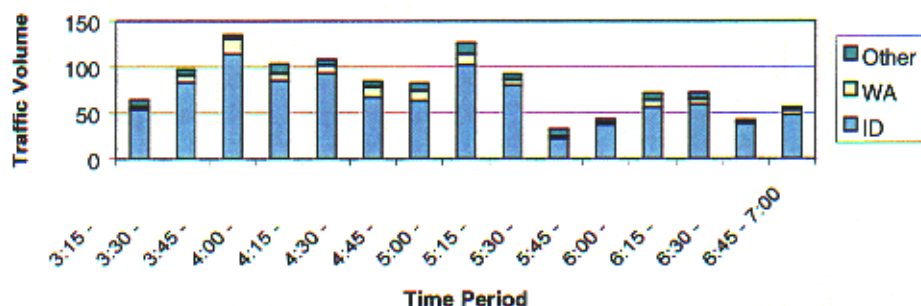
**Exhibit 6** depicts traffic volumes for the two stations by 15-minute intervals over the four-hour time period. At Station 1, traffic peaked between 3:45 and 3:59. Of the 135 total vehicles recorded for that period, 114 had Idaho plates, 17 had Washington plates and four had plates from elsewhere. The 5:30-5:44 period had the lowest vehicle counts partly due to the fact that data was not recorded from 5:37-5:51. The period with the lowest counts (where traffic was recorded for the entire period) was 6:30-6:44 with 42 total recorded vehicles.

At Station 2, traffic peaked between 4:30 and 4:44. Of the 124 vehicles recorded, 108 had Idaho plates, 9 had Washington plates and 7 were from elsewhere. Traffic levels remained near that peak for the next 1.5 hours, whereas traffic volumes at Station 1 dropped following the peak period (3:45-3:59).

**Table 1** details the vehicle type by 15-minute time period for Station 2 – this information was not obtained for Station 1. Passenger autos were the predominant vehicle type recorded, comprising 1,573 (96%) of the total 1,634 vehicles counted.

## Exhibit 6: Traffic Volumes by Time Periods, US 95 South of Spokane River Bridge

## NORTHBOUND (STA #1)



## SOUTHBOUND (STA #2)

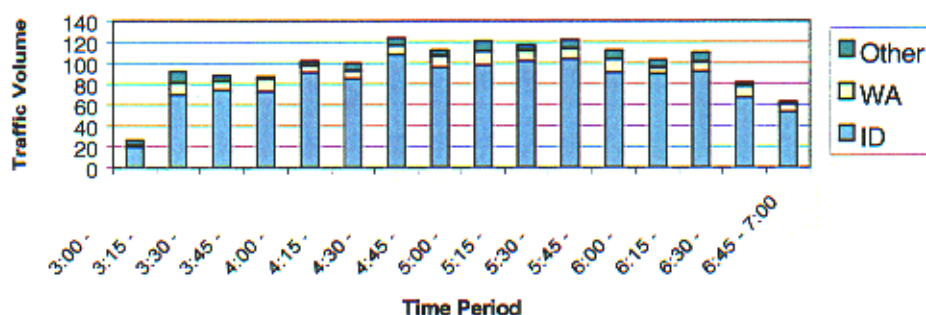


Table 1: Vehicle Type by Time Period, US 95 South of Spokane River Bridge (Southbound)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	1573	28	98	100	92	89	94	123	117	120	121	124	110	102	109	81	65
Truck	55	3	5	1	3	6	9	3	5	5	2	1	5	3	3	0	1
Motorcycle	6	0	0	0	1	2	1	1	0	1	0	0	0	0	0	0	0
TOTAL	1634	31	103	101	96	97	104	127	122	126	123	125	115	105	112	81	66

NOTE: Vehicle Type-Passenger Auto is based on raw data counts and differs from State counts where license plates were undeterminable.

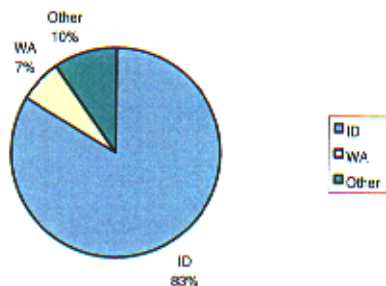
### US 95/I-90 Interchange, Survey Stations 3 and 4

Stations 3 and 4 were located at the US-95/I-90 interchange in Coeur d'Alene; Station 3 was on the eastbound I-90 on-ramp and Station 4 was on the westbound I-90 off-ramp.

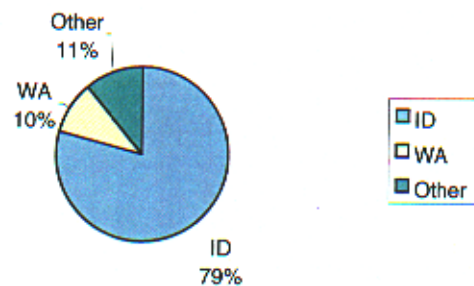
As shown in **Exhibit 7**, 83% of vehicles recorded had Idaho plates at Station 3 and 79% recorded had Idaho plates at Station 2. 7% of vehicles recorded at Station 3 and 10% of vehicles recorded at Station 4 had Washington plates. Vehicles with plates from states other than Idaho or Washington comprised 10% at Station 3 and 11% at Station 4.

**Exhibit 7: Total Traffic Volume by State, US 95/I-90 Interchange**

**EASTBOUND I-90 ON-RAMP (STA #3)**



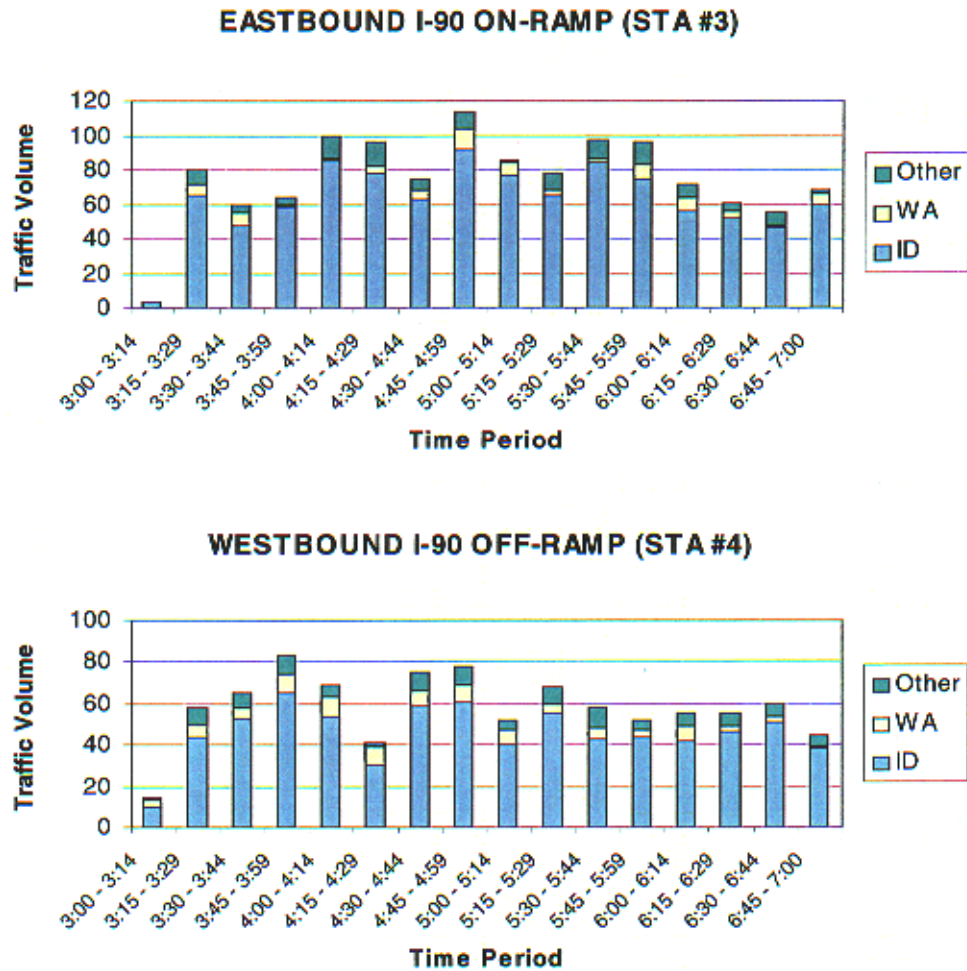
**WESTBOUND OFF-RAMP (STA #4)**



**Exhibit 8** depicts traffic volumes for the two stations by 15-minute intervals over a four-hour time period. Traffic peaked between 4:45 and 4:59 at Station 3. Of the 113 total vehicles recorded for that period, 92 (81%) had Idaho plates, 12 (11%) had Washington plates and nine (8%) had plates from states other than Idaho or Washington. The period with the lowest counts where traffic was recorded for the entire period was 6:30-6:44 with 55 total recorded vehicles. Data was not recorded until 3:14, affecting the 3:00-3:14 time period results.

Traffic peaked between 3:45 and 3:59 at Station 4. Of the 83 vehicles recorded, 65 (78%) had Idaho plates, 9 (11%) had Washington plates and 9 (11%) were from elsewhere. The period with the lowest counts where traffic was recorded for the entire period was 6:45-7:00 with 45 total recorded vehicles. For the 3:00-3:14 period, data was recorded starting at 3:12.

## Exhibit 8: Traffic Volumes by Time Periods, US 95/I-90 Interchange



**Table 2** details the type of vehicle by 15-minute time period for the two stations. Passenger autos were the predominant vehicle type recorded. Passenger autos comprised 1150 (95%) of the total 1,206 vehicles counted at Station 3 and 894 (95%) of the total 937 vehicles counted at Station 4.

Table 2: Vehicle Type by Time Period, US 95/I-90 Interchange

## EASTBOUND I-90 ON-RAMP (STA #3)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	1150	3	74	55	59	83	94	74	108	86	77	95	94	71	54	55	68
	95%	100%	90%	92%	92%	97%	98%	96%	96%	96%	97%	97%	96%	99%	88%	96%	99%
Truck	47		8	4	5	3	2	2	4	4	2	3	3	1	6		
	4%	0%	10%	7%	8%	3%	2%	3%	4%	4%	3%	3%	3%	1%	10%	0%	0%
M. Cycle	9			1				1	1	1			1		1	2	1
	0.7%			1.7%				1.3%	0.9%	1.1%			1.0%		1.6%	3.5%	1.4%
TOTAL	1206	3	82	60	64	86	96	77	113	91	79	98	98	72	61	57	69

NOTE: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.

## WESTBOUND I-90 OFF-RAMP (STA #4)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	894	14	52	62	78	64	38	73	75	51	68	56	54	54	53	59	43
	95%	100%	90%	93%	93%	93%	93%	97%	96%	96%	99%	97%	100%	96%	96%	97%	96%
Truck	43		6	5	6	5	3	2	3	2	1	2		2	2	2	2
	5%		10%	7%	7%	7%	7%	3%	4%	4%	1%	3%		4%	4%	3%	4%
TOTAL	937	14	58	67	84	69	41	75	78	53	69	58	54	56	55	61	45

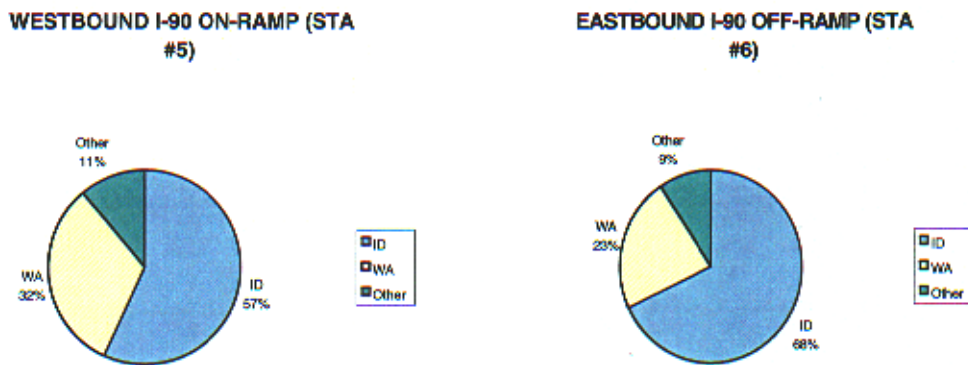
NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
No motorcycle counts given for this station.

## US 95/I-90 Interchange, Survey Stations 5 and 6

Stations 5 and 6 were located at the US 95/I-90 interchange in Coeur d'Alene, with Station 5 on the westbound I-90 on-ramp and Station 6 on the eastbound I-90 off-ramp.

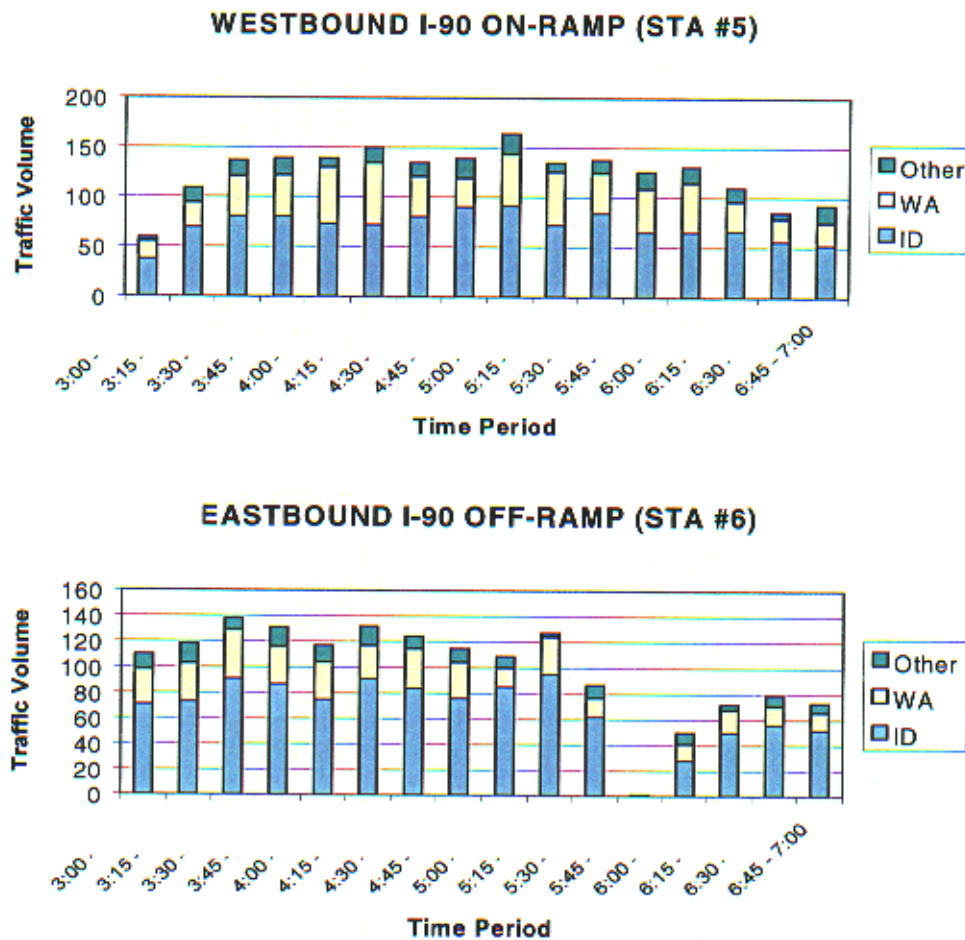
**Exhibit 9** shows that 57% of vehicles recorded had Idaho plates at Station 5 and 68% had Idaho plates at Station 6. Washington plates comprised 32% of vehicles recorded at Station 5 and 23% of vehicles recorded at Station 6. 11% of Station 5 recorded vehicles and 9% of Station 6 recorded vehicles had state plates other than Idaho and Washington. These two survey stations had greater percentages of vehicles with origins from states other than Idaho compared to other survey stations.

**Exhibit 9: Total Traffic Volume by State, US 95/I-90 Interchange**



As **Exhibit 10** shows, traffic levels peaked between 5:00 and 5:14 at Station 5. Of the 164 total vehicles recorded for that period, 91 (55%) had Idaho plates, 53 (32%) had Washington plates and 20 (12%) were from elsewhere. The period with the lowest counts where traffic was recorded for the entire period was 6:30-6:44 with 85 total recorded vehicles.

At Station 6 traffic peaked between 3:30 and 3:44 (138 recorded vehicles). 91 (66%) of those had Idaho plates, 38 (28%) had Washington plates and 9 (7%) were from elsewhere. The period with the lowest counts where traffic was recorded for the entire period was 6:15-6:29 with 72 total recorded vehicles. Data was largely missing for the 5:45-5:59 time period.

**Exhibit 10: Traffic Volumes by Time Periods, US 95/I-90 Interchange**

As shown in **Table 3**, passenger autos comprised 2,114 (97%) of the vehicles counted at Station 5 and 1,612 (97%) of 1,662 vehicles counted at Station 6.

Table 3: Vehicle Type by Time Period, US 95/I-90 Interchange

## WESTBOUND I-90 ON-RAMP (STA #5)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
	2114	66	110	144	144	146	156	153	149	172	159	144	134	138	115	90	94
Auto	97%	97%	98%	98%	97%	95%	97%	99%	97%	97%	99%	97%	99%	99%	97%	98%	95%
	55	2	4	3	4	7	5	1	5	6	1	4	1	2	3	2	5
Truck	3%	3%	4%	2%	3%	5%	3%	1%	3%	3%	1%	3%	1%	1%	3%	2%	5%
TOTAL	2169	68	114	147	148	153	161	154	154	178	160	148	135	140	118	92	99

NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
No motorcycle counts given for this station.

## EASTBOUND I-90 OFF-RAMP (STA #6)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
	1612	121	118	138	133	117	130	127	120	117	131	89	3	52	71	75	70
Auto	97%	97%	95%	98%	99%	97%	96%	97%	98%	100%	96%	98%	100%	100%	96%	94%	95%
	50	4	6	3	1	4	5	4	3		6	2			3	5	4
Truck	3%	3%	5%	2%	1%	3%	4%	3%	2%		4%	2%			4%	6%	5%
TOTAL	1662	125	124	141	134	121	135	131	123	117	137	91	3	52	74	80	74

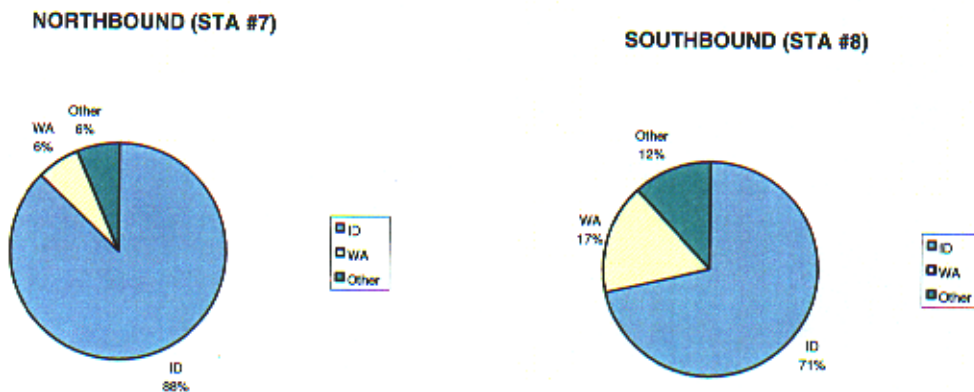
NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
No motorcycle counts given for this station.

### US 95 North of SH-53, Survey Stations 7 and 8

Stations 7 and 8 were located on US 95 just north of SH-53, and were the northernmost stations in the survey. Station 7 recorded northbound traffic data and Station 8 recorded southbound traffic data.

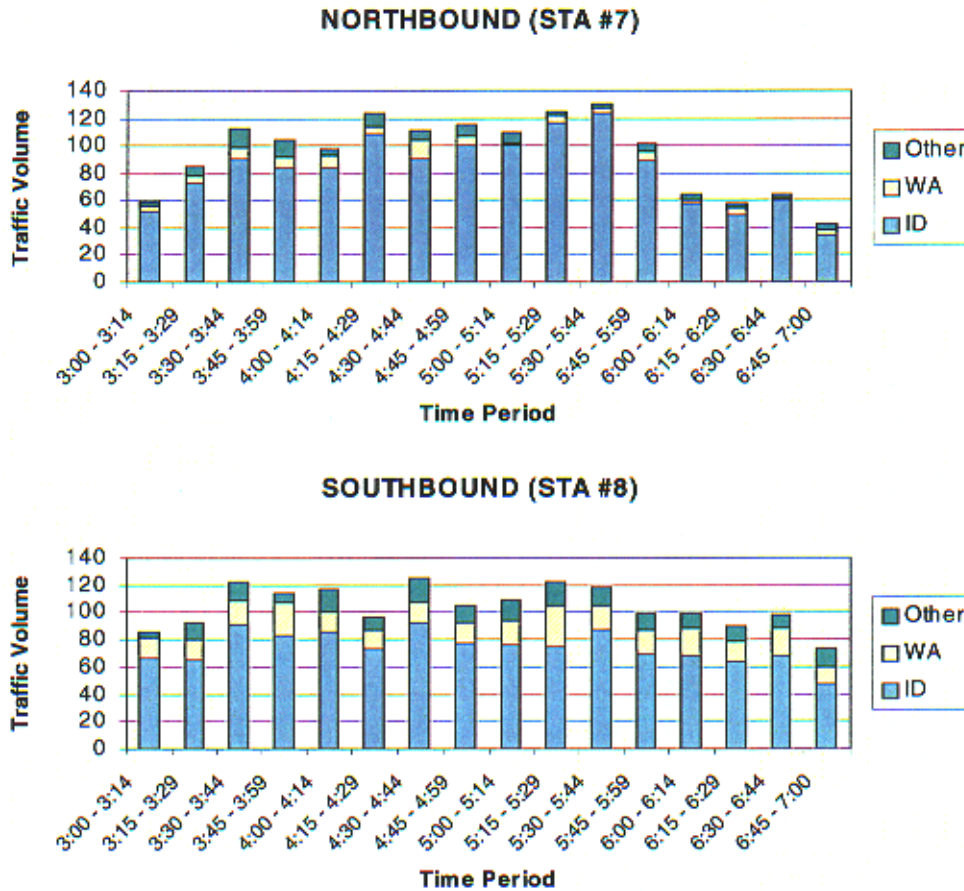
As shown in **Exhibit 11**, 88% of vehicles recorded at Station 7 had Idaho plates and 71% had Idaho plates at Station 8. Washington plates comprised 6% of vehicles recorded at Station 7 and 17% at Station 8. 6% of recorded vehicles at Station 7 and 12% at Station 6 had plates from states other than Idaho or Washington.

**Exhibit 11: Total Traffic Volume by State, US 95 North of SH-53**



**Exhibit 12** shows traffic levels at Station 7 peaked between 5:30 and 5:44. 123 (95%) of the 130 total vehicles recorded for that period had Idaho plates, 4 (3%) had Washington plates and 3 (2%) were from states other than Idaho or Washington. The period with the lowest counts was 6:45-7:00 with 42 total recorded vehicles.

At Station 8, traffic reached its highest level between 4:30 and 4:44 with 125 recorded vehicles. Of those, there were 93 (74%) Idaho plates, 15 (12%) Washington plates, and 17 (14%) from states other than Idaho or Washington. Data was largely missing for the 5:45-5:59 time period. The period with the lowest counts was 6:45-7:00 with 74 total recorded vehicles.

**Exhibit 12: Traffic Volumes by Time Periods, US 95 North of SH-53**

**Table 4** shows that passenger autos comprise 1,542 (96%) of the 1,610 vehicles counted at Station 7 and 1,514 (87%) of 1,739 vehicles counted at Station 8.

Table 4: Vehicle Type by Time Period, US 95 North of SH-53

## NORTHBOUND (STA #7)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	1542	61	91	122	106	99	127	113	108	116	126	132	100	71	58	69	43
	96%	88%	95%	92%	93%	94%	99%	100%	92%	99%	97%	95%	97%	100%	97%	99%	96%
Truck	68	8	5	11	8	6	1		9	1	4	7	3		2	1	2
	4%	12%	5%	8%	7%	6%	1%		8%	1%	3%	5%	3%		3%	1%	4%
TOTAL	1610	69	96	133	114	105	128	113	117	117	130	139	103	71	60	70	45

NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
No motorcycle counts given for this station.

## SOUTHBOUND (STA #8)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	1514	73	80	114	94	107	83	114	83	102	115	114	92	94	85	94	70
	87%	80%	82%	88%	79%	87%	82%	88%	78%	93%	88%	92%	90%	94%	88%	94%	90%
Truck	225	18	18	16	25	16	18	15	24	8	15	10	10	6	12	6	8
	13%	20%	18%	12%	21%	13%	18%	12%	22%	7%	12%	8%	10%	6%	12%	6%	10%
TOTAL	1739	91	98	130	119	123	101	129	107	110	130	124	102	100	97	100	78

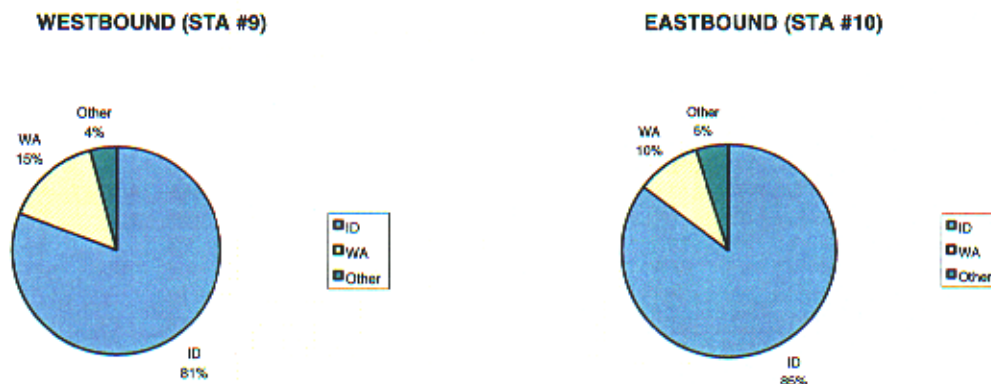
NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
No motorcycle counts given for this station.

### SH-53, Survey Stations 9 and 10

Stations 9 and 10 were located on SH-53 west of the US-95/SH-53 Junction; Station 9 recorded westbound traffic data and Station 10 recorded eastbound traffic data.

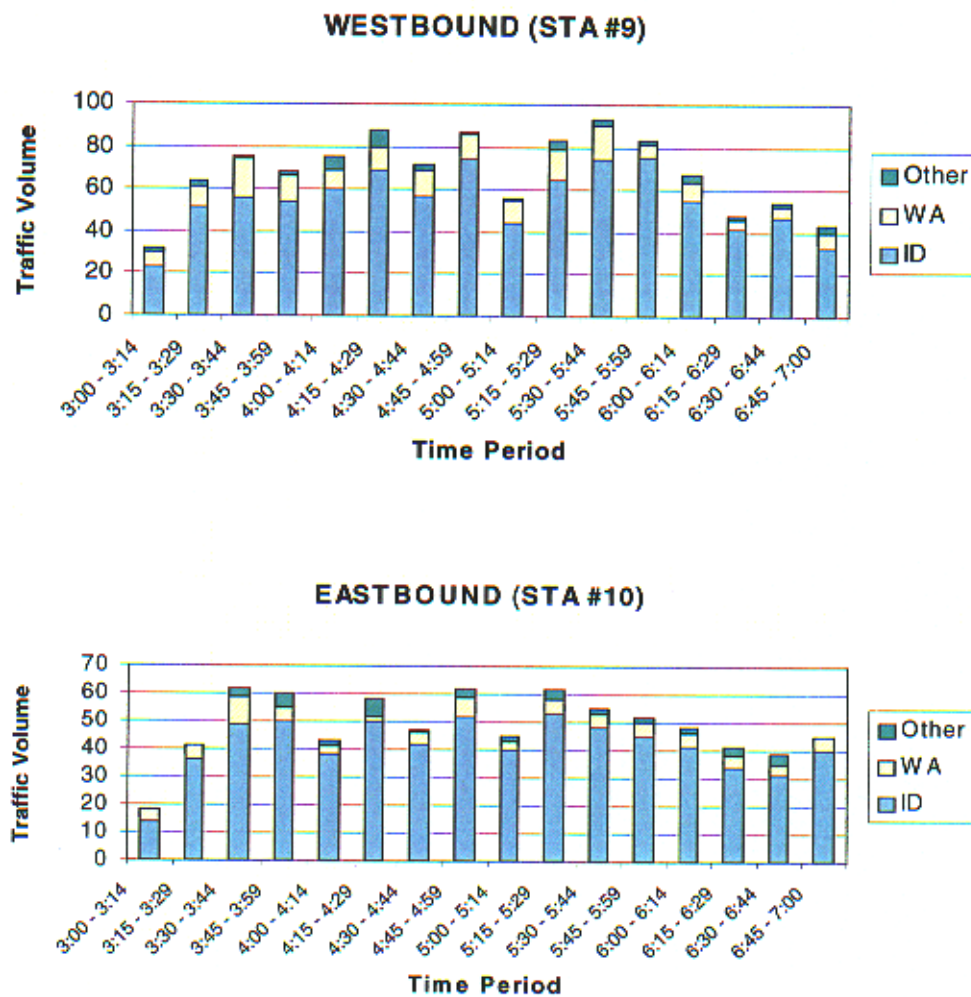
**Exhibit 13** shows that 81% of vehicles recorded at Station 9 and 85% of vehicles recorded at Station 10 had Idaho plates. Station 9 recorded 15% of vehicles with Washington plates, while Station 10 recorded 10%. 4% of recorded vehicles at Station 9 and 5% at Station 10 had plates from states other than Idaho or Washington.

**Exhibit 13: Total Traffic Volume by State, SH-53**



As **Exhibit 14** shows, traffic levels at Station 9 peaked between 5:30 and 5:44. Of the 93 total vehicles recorded during that time period, 74 (80%) had Idaho plates, 16 (17%) had Washington plates and 4 (5%) had plates from states other than Idaho or Washington. The period with the lowest counts where traffic was counted during the entire 15 minutes was 6:45-7:00 with 43 total recorded vehicles.

At Station 10, traffic reached its highest levels (62 vehicles) during three different time periods: 3:30-3:44, 4:45-4:59 and 5:15-5:29. Idaho plates comprised 79% (49) of the vehicles recorded from 3:30-3:44, 84% (52) from 4:45-4:59 and 85% (53) from 5:15-5:29. Washington plates comprised 16% (10) of the vehicles recorded from 3:30-3:44, 11% (7) from 4:45-4:59 and 8% (5) from 5:15-5:29. Vehicles with plates other than Idaho or Washington numbered 4 (6%) from 5:30-5:44. The period with the lowest counts where traffic was counted during the entire 15 minutes was 6:15-6:29 with 41 total recorded vehicles.

**Exhibit 14: Traffic Volumes by Time Periods, SH-53**

As shown in **Table 5**, of the 1,115 vehicles counted at Station 9, 1,039 (93%) were passenger autos. Passenger autos comprised 90% (735) of the 809 vehicles counted at Station 10.

Table 5: Vehicle Type by Time Period, SH-53

## WESTBOUND (STA #9)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	1039	29	56	67	59	74	82	72	84	56	80	91	83	66	48	52	40
	93%	88%	84%	89%	87%	97%	92%	97%	95%	93%	95%	96%	98%	96%	91%	93%	93%
Truck	76	4	11	8	9	2	7	2	4	4	4	4	2	3	5	4	3
	7%	12%	16%	11%	13%	3%	8%	3%	5%	7%	5%	4%	2%	4%	9%	7%	7%
TOTAL	1115	33	67	75	68	76	89	74	88	60	84	95	85	69	53	56	43

NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
No motorcycle counts given for this station.

## EASTBOUND (STA #10)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	735	18	39	51	54	36	59	45	59	42	62	52	46	49	39	36	48
	90%	100%	87%	80%	89%	75%	98%	92%	94%	84%	94%	90%	85%	98%	91%	90%	96%
Truck	84		6	13	7	12	1	4	4	8	4	6	8	1	4	4	2
	10%		13%	20%	11%	25%	2%	8%	6%	16%	6%	10%	15%	2%	9%	10%	4%
TOTAL	819	18	45	64	61	48	60	49	63	50	66	58	54	50	43	40	50

NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
No motorcycle counts given for this station.

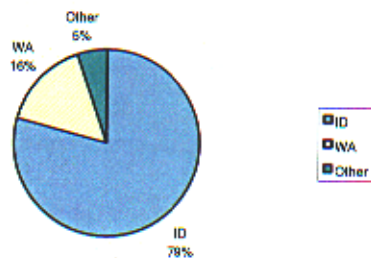
### SH-41, Survey Stations 11 and 12

Stations 11 and 12 were located on SH-41 between I-90 and Prairie Avenue; Station 11 recorded southbound traffic data and Station 12 recorded northbound traffic data.

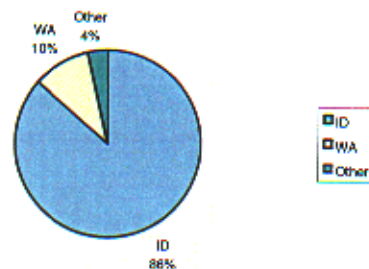
As **Exhibit 15** shows, 79% of vehicles recorded at Station 11 and 86% of vehicles recorded at Station 12 had Idaho plates. 16% of vehicles recorded at Station 11 and 10% of vehicles recorded at Station 12 had Washington plates. Those with plates other than Idaho or Washington comprised 5% of recorded vehicles at Station 11 and 4% at Station 12.

**Exhibit 15: Total Traffic Volume by State, SH-41**

**SOUTHBOUND (STA #11)**



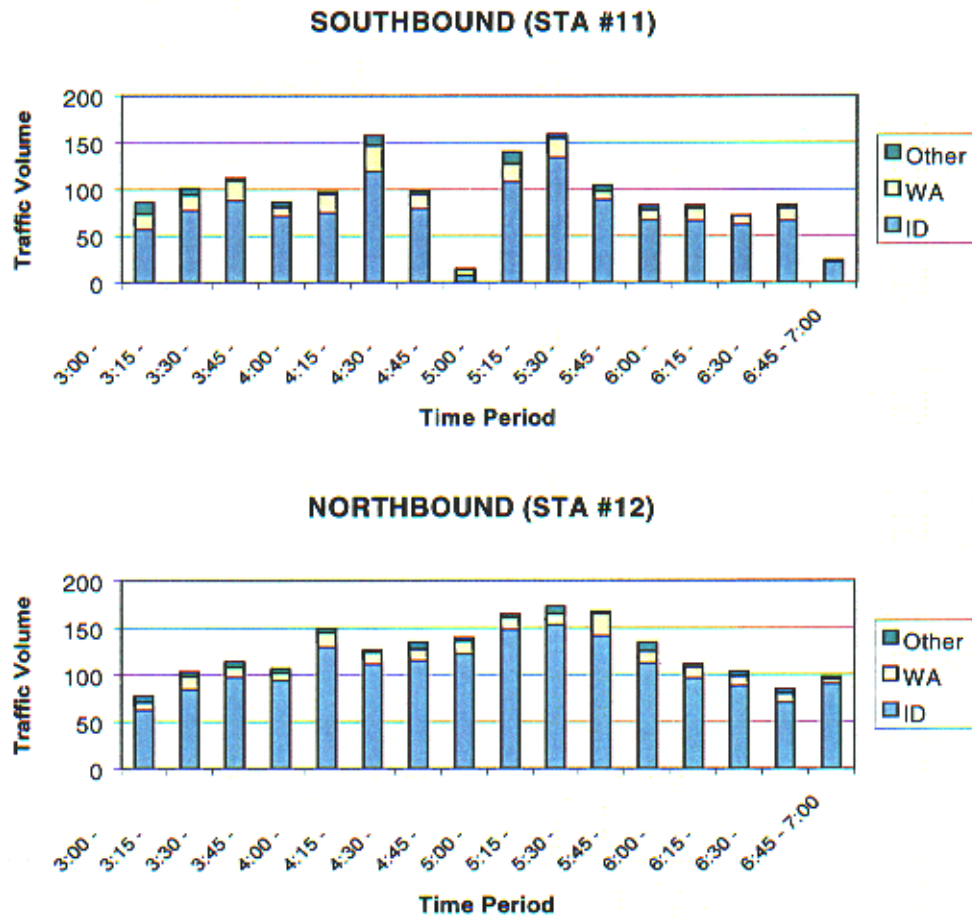
**NORTHBOUND (STA #12)**



**Exhibit 16** shows that traffic levels for Station 11 peaked from 5:15-5:29, with 158 total recorded vehicles. Idaho plates comprised 84% (134) of those vehicles, while 13% (21) had Washington plates and 3% (4) were from elsewhere. The period with the lowest counts where traffic was counted during the entire 15 minutes was 6:15-6:29 with 72 total recorded vehicles.

Traffic volume reached its highest level at Station 12 from 5:15-5:29. Of the 173 total recorded vehicles, 153 (88%) had Idaho plates, 12 (7%) had Washington plates, and 8 (5%) were from elsewhere. The period with the lowest counts where traffic was counted during the entire 15 minutes was 6:30-6:44 with 84 total recorded vehicles.

## Exhibit 16: Traffic Volumes by Time Periods, SH-41



**Table 6** shows that passenger autos comprise 96% (1,454) of the 1,518 total vehicles counted at Station 11 and 97% (2,041) of the 2,105 total vehicles counted at Station 12.

Table 6: Vehicle Type by Time Period, SH-41

## SOUTHBOUND (STA #11)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	1454	83	93	107	82	92	153	93	16	135	156	104	84	81	68	83	24
	96%	95%	92%	93%	91%	95%	96%	93%	94%	95%	98%	99%	100%	98%	94%	100%	100%
Truck	63	4	8	7	8	5	6	7	1	7	3	1		2	4		
	4%	5%	8%	6%	9%	5%	4%	7%	6%	5%	2%	1%		2%	6%		
M. cycle	1			1													
	0.1%			0.9%													
TOTAL	1518	87	101	115	90	97	159	100	17	142	159	105	84	83	72	83	24

NOTE: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.

## NORTHBOUND (STA #12)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	2041	86	98	118	108	156	130	140	140	165	179	171	141	114	109	86	100
	97%	91%	89%	95%	95%	99%	97%	97%	97%	98%	98%	98%	99%	100%	99%	96%	97%
Truck	64	8	12	6	6	1	4	4	5	3	3	3	1		1	4	3
	3%	9%	11%	5%	5%	1%	3%	3%	3%	2%	2%	2%	1%		1%	4%	3%
TOTAL	2105	94	110	124	114	157	134	144	145	168	182	174	142	114	110	90	103

NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
No motorcycle counts given for this station.

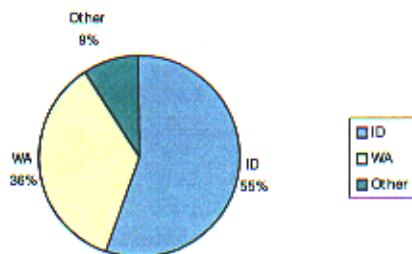
### **I-90/Ramsey Road Interchange, Survey Stations 13 and 15**

Stations 13 and 15 were located at the I-90/Ramsey Road interchange, with Station 13 at the westbound I-90 on-ramp and Station 15 at the eastbound I-90 off-ramp.

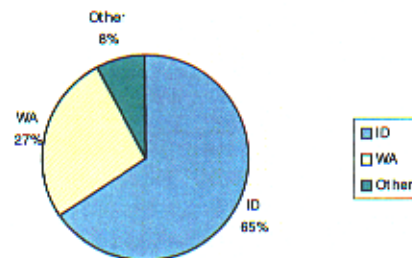
55% of vehicles recorded at Station 13 and 65% of vehicles recorded at Station 15 had Idaho plates, as shown below in **Exhibit 17**. Washington plates comprised 36% of vehicles at Station 13 and 27% of vehicles at Station 15. 9% of vehicles recorded at Station 13 and 8% at Station 15 were from elsewhere.

**Exhibit 17: Total Traffic Volume by State, I-90/Ramsey Road Interchange**

**WESTBOUND ON-RAMP (STA #13)**



**EASTBOUND OFF-RAMP (STA #15)**

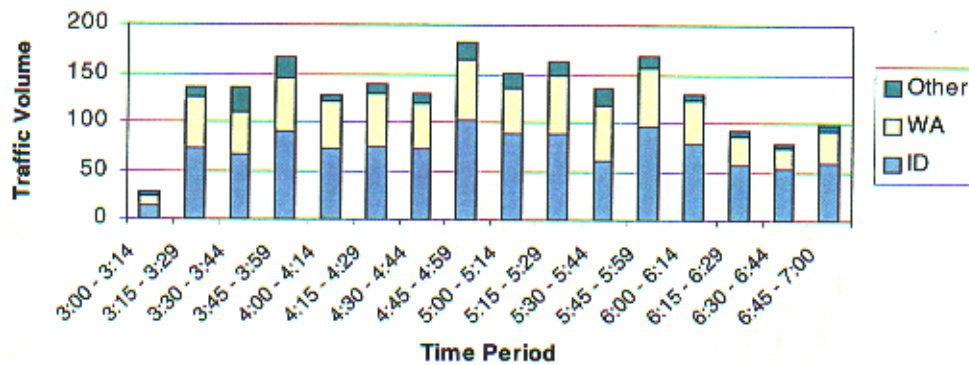


**Exhibit 18** shows that traffic volumes peaked at Station 13 from 4:45-4:59 with 183 total vehicles recorded. Idaho plates numbered 101 (55%) of those 183 vehicles, while 64 (35%) had Washington plates and 18 (10%) had plates from states other than Idaho or Washington. The period with the lowest counts where traffic was counted during the entire 15 minutes was 6:30-6:44 with 79 total recorded vehicles.

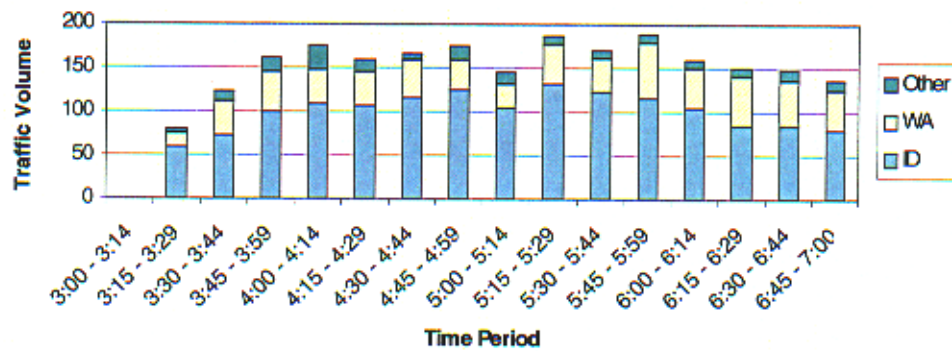
Traffic volume at Station 15 peaked from 5:45-5:59. Idaho plates made up 61% (116) of the total 189 recorded vehicles, while 33% (63) had Washington plates and 5% (10) were from elsewhere. The period with the lowest counts where traffic was counted during the entire 15 minutes was 3:30-3:44 with 123 total recorded vehicles. Data recording began at 3:18.

## Exhibit 18: Traffic Volumes by Time Periods, I-90/Ramsey Road Interchange

## WESTBOUND ON-RAMP (STA #13)



## EASTBOUND OFF-RAMP (STA #15)



As shown in **Table 7**, passenger autos made up 99% (2,041) of the 2,059 total vehicles counted at Station 13 and 99.8% (2,331) of the 2,336 total vehicles counted at Station 15

Table 7: Vehicle Type by Time Period, I-90/Ramsey Road Interchange

## WESTBOUND ON-RAMP (STA #13)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	2041	86	98	118	108	156	130	140	140	165	179	171	141	114	109	86	100
	99%	100%	98%	100%	98%	100%	99%	100%	99%	99%	100%	100%	96%	99%	98%	99%	100%
Truck	18		2		2		1		2	1			6	1	2	1	
	1%		2%		2%		1%		1%	1%			4%	1%	2%	1%	
M. cycle	7			1	1	1			1			2			1		
	0.3%			1%	1%	1%			1%			1%			1%		
TOTAL	2059	86	100	118	110	156	131	140	142	166	179	171	147	115	111	87	100

NOTE: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.

## EASTBOUND OFF-RAMP (STA #15)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Passenger	2331		83	122	165	174	161	167	176	146	186	170	190	159	149	147	136
	99.8%		100%	99%	100%	99%	99%	99%	99%	100%	100%	100%	100%	100%	100%	100%	100%
Truck	5			1		1	1	1	1								
	0.2%			1%		1%	1%	1%	1%								
M. cycle	1						1										
	0.0%						1%										
TOTAL	2336		83	123	165	175	162	168	177	146	186	170	190	159	149	147	136

NOTES: "Vehicle Type-Auto" is based on raw data counts and differs from State counts where license plates were undeterminable.  
Data recording began at 3:18

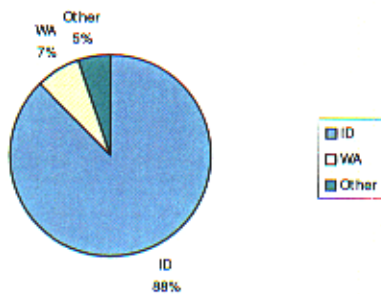
### **I-90/Ramsey Road Interchange, Survey Stations 14 and 16**

Stations 14 and 16 were located at the I-90/Ramsey Road interchange, with Station 14 at the westbound I-90 off-ramp and Station 16 at the eastbound I-90 on-ramp.

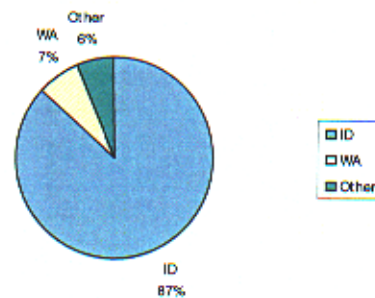
**Exhibit 19** shows that 88% of recorded vehicles at Station 14 had Idaho plates and 87% of recorded vehicles had Idaho plates at Station 16. 7% of vehicles at Station 14 and 7% of vehicles at Station 16 had Washington plates. Recorded vehicles with plates other than Idaho or Washington made up 5% of the total at Station 14 and 6% at Station 16.

#### **Exhibit 19: Total Traffic Volume by State, I-90/Ramsey Road Interchange**

**WESTBOUND OFF-RAMP (STA #14)**

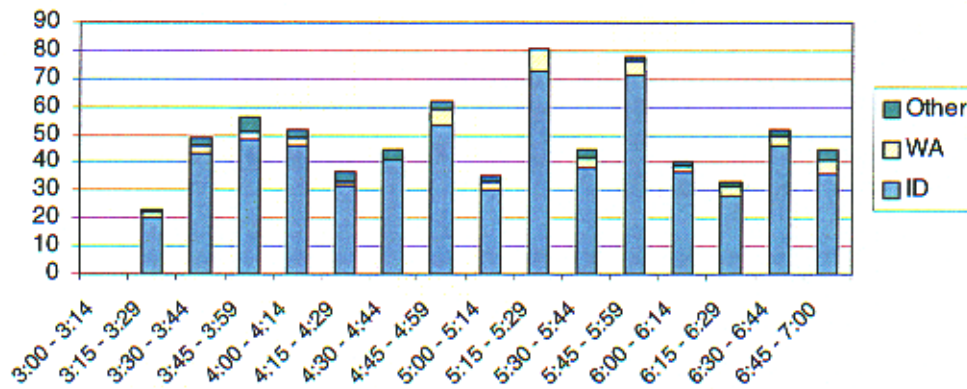
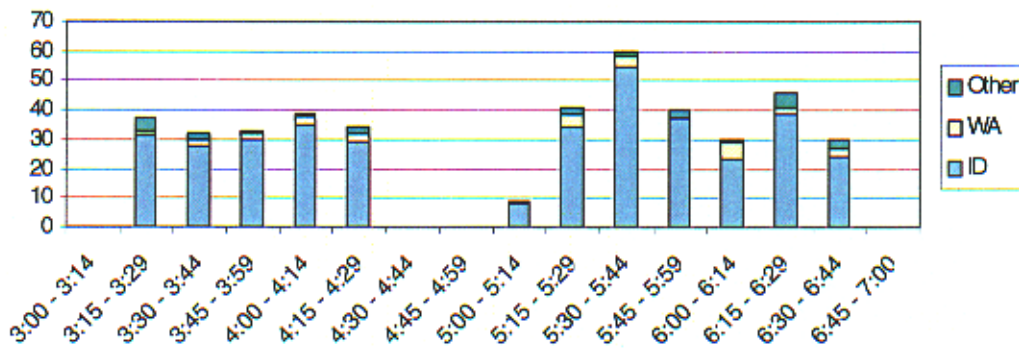


**EASTBOUND ON-RAMP (STA #16)**



As shown in **Exhibit 20**, traffic volume peaked at Station 14 between 5:15 and 5:29. 73 (90%) of the 81 total recorded vehicles had Idaho plates, while 8 (10%) had Washington plates (there were no plates recorded from other states). The period with the lowest counts where traffic was counted during the entire 15 minutes was 6:30-6:44 with 33 total recorded vehicles. Data recording at Station 14 began at 3:25.

Traffic volume at Station 16 peaked from 5:30-5:44, with 92% (55) of the total recorded vehicles having Idaho plates, 5% (3) Washington plates and 3% (2) plates from states other than Idaho or Washington. The period with the lowest counts where traffic was counted during the entire 15 minutes was 6:30-6:45 with 30 total recorded vehicles. (Note: Data recording at Station 16 began at 3:15 and ended at 6:45. Most of the data recorded from 4:30-5:15 was erased and recorded over for the 6:00-6:45 time period.)

**Exhibit 20: Traffic Volumes by Time Periods, I-90/Ramsey Road Interchange****WESTBOUND OFF-RAMP (STA #14)****EASTBOUND ON-RAMP (STA #16)**

**Table 8** shows that at Station 14, passenger autos comprised 98% (715) of the 733 total vehicles counted and 95% (417) of the 439 total vehicles counted at Station 16.

Table 8: Vehicle Type by Time Period, I-90/Ramsey Road Interchange

## WESTBOUND OFF-RAMP (STA #14)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	715		23	50	47	47	37	46	60	35	79	45	78	40	32	51	45
	98%		100%	100%	96%	90%	97%	100%	97%	100%	96%	98%	99%	98%	97%	96%	100%
Truck	18				1	5	1		2		3	1	1	1	1	2	
	2%				2%	10%	3%		3%		4%	2%	1%	2%	3%	4%	
TOTAL	733		23	50	48	52	38	46	62	35	82	46	79	41	33	53	45

NOTES: Vehicle Type-Auto is based on raw data counts and differs from State counts where license plates were undeterminable.  
 No motorcycle counts given for this station.  
 Data recording began at 3:25

## EASTBOUND ON-RAMP (STA #16)

Vehicle Type	TOTAL	Time Period															
		3:00 - 3:14	3:15 - 3:29	3:30 - 3:44	3:45 - 3:59	4:00 - 4:14	4:15 - 4:29	4:30 - 4:44	4:45 - 4:59	5:00 - 5:14	5:15 - 5:29	5:30 - 5:44	5:45 - 5:59	6:00 - 6:14	6:15 - 6:29	6:30 - 6:44	6:45 - 7:00
Auto	417		36	32	30	34	31			9	41	60	36	32	46	30	
	95%		90%	97%	91%	87%	91%			100%	98%	100%	90%	97%	100%	100%	
Truck	22		4	1	3	5	3				1		4	1			
	5%		10%	3%	9%	13%	9%				2%		10%	3%			
TOTAL	439		40	33	33	39	34			9	42	60	40	33	46	30	

NOTES: Data recording began at 3:15 and ended at 6:45.  
 Data for 4:30 - 5:15 and 6:00 - 6:45 is incomplete.  
 "Vehicle Type-Auto" is based on raw data counts and differs from State counts where license plates were undeterminable.  
 No motorcycle counts given for this station.

## **Survey #2: November, 2001**

Under contract of Idaho Transportation Department (ITD), and through a subconsultant agreement with W&H Pacific Inc. (WHP), ATD Northwest, Inc. (ATD) was asked to conduct a vehicle license plate matching study in Coeur d'Alene Idaho (and vicinity) on Tuesday, November 6, 2001. Vehicle plates captured within the 4-hour afternoon peak traffic period (3 pm to 7 pm) should be matched for the O/D analysis. The following is a brief review of the work performed by ATD.

On October 30, 2001, ATD's project manager, Brian Kaylor, traveled to the above mentioned location to review all sites with respect to proper technical and safety requirements. These sites included:

- (1) US 95 - NB & SB at Spokane River
- (2) I-90 - all ramps at US-95
- (3) US 95 - NB & SB at SH-53
- (4) SH-53 - WB & EB west of US 95
- (5) SH-41 - NB & SB north of I-90
- (6) I-90 - all ramps at Ramsey Road

On November 1, 2001, ITD requested two additional locations be included in the study; SH-41 north of SH-53 (north of Rathdrum) and SH-53 west of SH-41 (west of Rathdrum near the Washington border).

At midday, November 6, 2001, ATD conducted a "safety & project review" meeting for all survey personnel and issued hard hats and reflective clothing. Shortly thereafter, Camera, Lighting, & Safety Equipment were positioned at the survey sites. Due to cold and rainy conditions, survey personnel were stationed in vehicles at all locations. Between 3pm & 7pm, vehicle license plates were captured with little difficulty (as weather conditions later improved).

All video information retrieved over the survey period was later input into a computer database by ATD personnel. Each record contained the following fields; Time, Date, Location, License Plate #, Car/Truck classification and the Vehicle Photo Image. License plates were first matched and then processed to determine traffic volume and trips made between selected travel points. The data generated could distinguish trips made (between 3:30pm & 6:30pm) by both automobiles & trucks. Electronic distribution of this data, in a Excel spreadsheet format, was delivered to the Transpo Group on November 28, 2001.

## Survey Summary

US 95 Coeur D'Alene License Plate Matching: O-D Pairings for Data Summary (Preliminary) 3:30PM - 6:30PM

Stat. #	Location	Dir.	Vol.	1 - US 95 - Spokane River nbnd	2 - US 95 - Spokane River sbnd	3 - I-90/US 95 On-Ramp sbnd	4 - I-90/US 95 On-Ramp sbnd	5 - I-90/US 95 On-Ramp sbnd	6 - I-90/US 95 On-Ramp sbnd	7 - US 95 at SH-53 nbnd	8 - US 95 at SH-53 sbnd	9 - SH-53 at US 95 sbnd	10 - SH-53 at US 95 sbnd	11 - SH-41 at Prairie sbnd	12 - SH-41 at Prairie sbnd	13 - I-90/Ramsey On-Ramp wond	14 - I-90/Ramsey On-Ramp wond	15 - I-90/Ramsey On-Ramp wond	16 - I-90/Ramsey On-Ramp wond	17 - SH-41 north of SH-53 sbnd	18 - SH-41 north of SH-53 sbnd	19 - SH-41 north of SH-53 sbnd	19 - SH-41 north of SH-53 sbnd
1	US 95 - Spokane River	nbnd	924																				
2	US 95 - Spokane River	sbnd	1196																				
3	I-90/US 95 On-Ramp	sbnd	1018																				
4	I-90/US 95 Off-Ramp	wond	745																				
5	I-90/US 95 On-Ramp	wond	1772																				
6	I-90/US 95 Off-Ramp	sbnd	1480																				
7	US 95 at SH-53	nbnd	1999																				
8	US 95 at SH-53	sbnd	1122																				
9	SH-53 at US 95	wond	675																				
10	SH-53 at US 95	sbnd	395																				
11	SH-41 at Prairie	sbnd	1279																				
12	SH-41 at Prairie	nbnd	1732																				
13	I-90/Ramsey On-Ramp	wond	1743																				
14	I-90/Ramsey Off-Ramp	wond	533																				
15	I-90/Ramsey On-Ramp	sbnd	1660																				
16	I-90/Ramsey On-Ramp	sbnd	598																				
17	SH-41 north of SH-53	nbnd	1461																				
18	SH-41 north of SH-53	sbnd	690																				
19	SH-53 at State Line	sbnd	518																				
20	SH-53 at State Line	sbnd	1079																				

KEY:

From

To

KEY:



## Raw Data

Matched Trips - 3:30pm - 6:30pm

		Destination																			
Origin	Vol.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	924	120		37		37		29		7			5	47	4	1	2	4		1	
2	1196		6	1					2						4	2			1		1
3	1018		3	10	35	4			3		1		2	3	4	15	1				
4	745		27	79	8	37	2	54		8	1	3	3	13	3		12	5			
5	1772		2		3	11	73	1		1		5	117	9	1	29	8	7		1	
6	1480	1	44	54	2	164	1	87		6		4	9	25	10	3	2			1	
7	1999	2	1	1		2		1	101	1	4	4						1	6	1	
8	1122		19	47	1	78	1	94		58	2	23	4	17	3	1	2	3		4	
9	675							2		2	38	17	2					58	5	39	
10	395		2	7		7	1	56	1	44	1	3	2	3				2			
11	1279		6	3	4	8	61	4	1	1		5	130	4	5	103	1	4	1	2	2
12	1732		4	6	1	6	1	23	3	3	19	131	4	6	1	3	2	265	2	12	1
13	1743	2	1	3	1	2	21	1				4	144	3		89		3		2	2
14	533		4	9	2	63				1		1	2	26	2	1	40	1			
15	1660		89	23	8	47		31		1		3	12	169	9	7	23	5	1	1	
16	598		5	3	13	2	56	4		2			2	2	31		2				
17	1461								4		8	7	3	1				12	107	2	
18	690	1		1		1		1			27	106	1			4		105	7	41	1
19	518																				
20	1079		1			4	2	2	5		18	14	1	1	1	3	1	217	1	39	

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